## INTERNATIONALSEARCHREPORT

International application No.

PCT/JP2004/004072

A. CLAS	SSIFICATION OF SUBJECT MATTER			
Int.Cl' H01L 31/06				
According to International Patent Classification (IPC) or to both national classification and IPC				
B. FIELDS SEARCHED				
Minimum documentation searched (classification system followed by classification symbols)				
Int.Cl <sup>7</sup> H01L 31/04 - 31/078				
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Japanese Utility Model Gazette 1922-1996, Japanese Publication of Unexamined Utility Model Applications 1971-2004, Japanese Registered Utility Model Gazette 1994-2004, Japanese Gazette Containing the Utility Model 1996-2004				
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)				
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C. DOCUMENTS CONSIDERED TO BE RELEVANT				
Category*	Citation of document, with indication, where ap	propriate, of the relevant passages	Relevant to claim No.	
Y	JP 2001-217442 A (Hitachi	Cable)	1-4	
	2001.08.10 family: none	•		
Y	JP 3-228324 A (Mitsubishi	Electric)	1-4	
	1991.10.09 family: none		·	
Y	JP 2001-332494 A (Toyota (	Central R&D Lab.)	1-3	
A	2001.11.30 family: none		4	
Y	JP 9-312258 A (Ricoh)		4	
A	1997.12.02 family: none		1-3	
A	JP 4-225282 A (Canon)		1-4	
	1992.08.14			
	& WO 92/12542 A			
}	& DE 4193392 T & US 5403771 A			
	& US 5403//1 A			
Europe	and documents are listed in the continuation of Box C	See patent family annex.		
* Special categories of cited documents:  "A" document defining the general state of the art which is not considered to be of particular relevance  "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention				
"B" earlier application or patent but published on or after the inter- "X" document of particular relevance; the claimed invention cannot national filing date  "B" earlier application or patent but published on or after the inter- "X" document of particular relevance; the claimed invention cannot be considered to involve an				
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other "Y" document of particular relevance; the claimed invention cannot be considered to establish the publication date of another citation or other "Y" document of particular relevance; the claimed invention cannot be considered to establish the publication date of another citation or other "Y" document of particular relevance; the claimed invention cannot be considered to establish the publication date of another citation or other "Y" document of particular relevance; the claimed invention cannot be considered to establish the publication date of another citation or other "Y" document of particular relevance; the claimed invention cannot be considered to establish the publication date of another citation or other "Y" document of particular relevance; the claimed invention cannot be considered to establish the publication date of another citation or other "Y" document of particular relevance; the claimed invention cannot be considered to establish the publication date of another citation or other "Y" document of particular relevances.			e claimed invention cannot	
	special reason (as specified)  be considered to involve an inventive step when the document is combined with one or more other such documents, such			
"P" document published prior to the international filing date but later "&" document member of the same patent family than the priority date claimed				
Date of the actual completion of the international search  Date of mailing of the international search report				
13.05.2004 25. 5. 2004				
Name and mailing address of the ISA/JP Authorized officer 2K 9207				
1	Japan Patent Office	Shoji HAMADA		
3-4-3, Kas	sumigaseki, Chiyoda-ku, Tokyo 100-8915, Japan	Telephone No. +81-3-3581-1101 E	Ext. 3254	

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Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	JP 10-107302 A (Nippon Telegraph and Telephone) 1998.04.24 family: none	1-4
A	JP 2001-237446 A (Mitsubishi Heavy Industries) 2001.08.31 family: none	1-4
A	JP 5-36611 A (Sanyo Electric) 1993.02.12 family: none	1-4
A	Z. Shi et al., "Investigation of polycrystalline silicon deposition on glass substrate", Solar Energy Material and Solar Cells, Vol.31, (1993) pp.51-60	1-4
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